

Notice of Allowability

Application No.

10/517,902

Applicant(s)

ROSENBERG ET AL.

Examiner

Tung X. Le

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to a RCE filed on 8/2/2007.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 12/10/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

This is a response to the Applicant's communication filed a RCE on August 02, 2007. In virtue of this filing, claims 19-20 are newly added; and claims 1-20 are pending in the instant application.

Allowable Subject Matter

1. Claims 1-20 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Prior art of record fails to disclose or fairly suggest the following limitations:
 - An antenna device for a portable device, the antenna device comprising a ground plane extender positioned at a first side of the PCB and in a longitudinal extension of the ground plane, wherein the ground plane extender is a separate piece and spaced apart a distance from the ground plane, in combination with the remaining claimed limitations as claimed in independent claim 1 (claims 2-9 and 14-20 are allowed for depending on claim 1).
 - An antenna device for a portable device, the antenna device comprising a ground plane extender positioned at a first side of the PCB and in a longitudinal extension of the ground plane, wherein the PCB further comprises a second side opposite the first side, a third side adjacent the first and second sides, and a fourth side opposite the third side, the antenna device further comprising a bezel connected to the PCB that extends from the third side of the PCB towards the fourth side of the PCB, and/or bezel flanges connected to the ground plane and

extending along the third and fourth sides of the PCB, in combination with the remaining claimed limitations as claimed in independent claim 10.

- A multi-layer printed circuit board (PCB) comprising a ground plane extender positioned at a first side of the PCB and in a longitudinal extension of the ground plane, wherein the ground plane extender is a separate piece and spaced apart a distance from the ground plane, in combination with the remaining claimed limitations as claimed in independent claim 11.
- A portable communication device comprising a ground plane extender positioned at a first side of the PCB and in a longitudinal extension of the ground plane, wherein the ground plane extender is a separate piece and spaced apart a distance from the ground plane, in combination with the remaining claimed limitations as claimed in independent claim 12 (claim 13 is allowed for depending on claim 12).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Relevant Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Einat (U.S. 2002/0093455 A1) discloses a hand-held radio frequency transceiver particularly useful as a cellular telephone handset.

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Andrew et al. (U.S. 6,329,960 B1) discloses an antenna assembly.

Wu et al. (U.S. 6,252,561 B1) discloses a wireless LAN antenna with single loop.

Inquiry

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X. Le whose telephone number is 571-272-6010. The examiner can normally be reached on 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on 571-272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner
Tung Le
AU 2821

September 7, 2007

Douglas W. Owens 9/14/07

DOUGLAS W. OWENS
SUPERVISORY PATENT EXAMINER